

**SITE IR-1/21 INDUSTRIAL LANDFILL
GROUNDWATER EXTRACTION SYSTEM
HUNTERS POINT NAVAL SHIPYARD
OCTOBER 2001 MONTHLY REPORT**

**Environmental Remedial Action
Contract Number N62474-98-D-2076
Contract Task Order 0082**

**Document Control Number 2815
Revision 0**

November 16, 2001

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Southwest Division
Naval Facilities Engineering Command
Environmental Division
1230 Columbia Street
San Diego, California 92101-8517

Submitted by:

IT Corporation
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Concord, California 94520-1120



IT CORPORATION
A Member of The IT Group

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Date: November 16, 2001

CTO: 0082

Location: Hunter's Point Shipyard

FROM:

Karnig Ohannessian

Karnig Ohannessian
Project Manager

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1.0 Introduction

This monthly report was prepared by IT Corporation (IT) on behalf of the U.S. Navy under Contract No. N62474-98-D-2076, Contract Task Order 0082 to document activities associated with the operation and maintenance (O&M) of the groundwater extraction system (GES) at Hunters Point Shipyard, Site IR-1/21 Industrial Landfill. This report includes a summary of activities from August 15, 2001 through October 15, 2001.

The objective of the GES is to prevent mounding of the groundwater behind a containment wall at a limited portion of the landfill, thereby reducing the potential for migration of groundwater, which contains landfill constituents, into the San Francisco Bay. The GES collects groundwater from seven extraction wells and one extraction trench, and discharges the groundwater into the City and County of San Francisco sanitary sewer. The GES works in conjunction with a downgradient sheet pile containment barrier to prevent groundwater mounding and subsequent flow around the containment barrier. The installation of the containment barrier was completed in December 1997, and the GES began operations in February 1999 (IT, 1999). A cathodic protection system, commissioned in June 1999, protects the sheet pile barrier from corrosion.

Operation of the GES and scheduled monitoring events are conducted in accordance with the Operation and Maintenance Manual (IT, 2000) and with the City and County of San Francisco Industrial Wastewater Discharger Class I Permit No. 98-0301. This permit was issued on December 14, 1998, and expires on December 14, 2001.

2.0 Summary of Field Activities

Field activities performed during this reporting period of August 15, 2001 through October 15, 2001 included various O&M activities, the collection of field data, and the collection of a discharge sample. The field data collected included groundwater levels, pressure and flow readings throughout the system, and voltage and amperage readings at the cathodic protection system rectifiers. Due to a contract change, no activities were performed at the GES in September except quarterly sampling on September 26, 2001.

2.1 Operation and Maintenance

No O&M activities were performed at the GES during this reporting period because of a contract change. Based on an evaluation of the GES that was performed on October 15, 2001, the system needs the following repairs:

- EW-122 groundwater sensors are not working properly.
- EW-134 box is not working; it was flooded. This box will be fixed in late October or early November.
- EW-146 is not working; it will be fixed in late October or early November.
- EW-154 will not turn off; it pumps slowly with no pressure. This well will be fixed in late October or early November.

2.2 Field Data

Data collected during this period to support O&M of the GES and cathodic protection system include the following:

- Groundwater levels were measured at the extraction wells, monitoring wells, and piezometers.
- Pressure and flow readings were recorded at the extraction wells and at the collection and monitoring pad.
- Voltage and amperage readings were recorded at the cathodic protection system rectifiers.
- An effluent sample was collected from the collection and monitoring pad and analyzed for all permit-required analytes.

These readings and results are included as Appendices A, B, C, and D. These data are used to monitor the performance of the system.

2.2.1 *Groundwater Level Measurements*

During this reporting period, water levels were measured at the extraction wells, monitoring wells, and piezometers on October 9, 2001. Depth to groundwater was measured to the nearest 0.01 foot. These measurements are provided in Appendix A. Also included in Appendix A are the groundwater elevations associated with the groundwater level measurements and a map of the potentiometric surface.

2.2.2 *Groundwater Extraction System Measurements*

Pressure and flow readings were taken at the extraction wells on October 15, 2001. These measurements are provided in Appendix B. The total flow for the 61-day discharge period from August 15 through October 15, 2001 was 819,682 gallons, with an average flow rate of 9.33 gallons per minute. The total flow was calculated by adding the flows at each extraction well. The accuracy of this flow reading was confirmed by the monthly flow reading at the discharge pipe. The flow reading at the discharge pipe was 825,650 gallons, which is 0.75 percent larger than the extraction wells. This deviation is within the 10 percent accuracy range specified by the permit (No. 98-0301).

2.2.3 *Rectifier Inspection*

The rectifiers were inspected on October 9, 2001. A record of this inspection is provided in Appendix C. The output at Rectifier 1 was 10 volts and 42.0 amperes (amps). The output at Rectifier 2 was 16 volts and 42.0 amps.

2.3 *Sample Collection*

The City and County of San Francisco Industrial Wastewater Discharger Class I Permit No. 98-0301 require a quarterly sample to be collected from the GES effluent. During this reporting period, a sample of the effluent was collected on September 26, 2001 and sent to Applied Physics & Chemistry Laboratory (APCL) in Chino, California for analysis.

3.0 Analytical Data

The sample of the extraction system effluent that was collected on September 26, 2001, and was analyzed for all permit-required analytes. All detected compounds were either not regulated by the City and County of San Francisco's Industrial Wastewater Discharger Permit No. 98-0301, or were below the regulated permit concentrations. Table 1 provides a summary of the analytical results for this sample for the analytes with permit limits. The complete set of analytical data and an analytical data summary for this sample are included in Appendix D.

4.0 References

IT Corporation, 2000, *Operation and Maintenance Manual, Groundwater Extraction System/Containment Barrier, Site IR-1/21 Industrial Landfill, Hunters Point Shipyard, San Francisco, California, Delivery Order #0083*, Revision 0, Concord, California.

IT Corporation, 1999, *Contractor Quality Control Plan, Environmental Protection Plan, Sampling and Analysis Plan, Health and Safety Plan, Long Term Groundwater Extraction and Monitoring, Site IR-1/21 Industrial Landfill, Hunters Point Shipyard, San Francisco, California, Delivery Order #0083*, Revision 0, Martinez, California.

TABLES

Table 1
Analytical Results for the Analytes with Permit Limits
September 20, 2001 Sample

Analyte	Analytical Result	Permit Limits	Units
pH	6.64	6.0 to 9.5	pH Unit
Sulfide	0.27	0.5	mg/L
Temperature	<52	52	°C
Cyanide	<0.05	1.0	mg/L
Phenol	3.4	23.0	mg/L
Total Recoverable Oil and Grease	<5	300	mg/L
Total Recoverable Petroleum Hydrocarbons (Hydrocarbon Oil and Grease)	<5	100	mg/L
Arsenic	<5	4000	µg/L
Cadmium	<2	500	µg/L
Chromium (total)	11	5000	µg/L
Copper	28	4000	µg/L
Lead	3.4	1500	µg/L
Mercury	0.065	50	µg/L
Nickel	17	2000	µg/L
Silver	<10	600	µg/L
Zinc	29	7000	µg/L

< denotes less than

°C denotes degree(s) Celsius.

µg/L denotes micrograms per liter.

mg/L denotes milligrams per liter.

APPENDIX A
GROUNDWATER LEVEL MEASUREMENTS AND
MAP OF THE POTENTIOMETRIC SURFACE

Monthly Monitoring Well, Extraction Well, and Piezometer Water Levels

Contract No. N62474-98-D-2076

Contract Task Order 0082

Hunters Point Shipyard, Site IR-1/21 Industrial Landfill

U. S. Navy Southwest Division

**IT Corporation
Project No. 831667**

**Date Recorded: 10/09/01
Operator: Ben Porter**

Location	Time	Depth to Water Level (ft TOC)	Groundwater Elevation (ft)
EW-108	10:05	4.18	2.67
EW-122	10:08	5.63	2.65
EW-134	09:37	7.39	1.48
EW-138	09:40	12.31	-2.86
EW-142	09:44	8.21	1.84
EW-146	09:47	7.98	1.86
EW-150	09:50	8.50	1.24
EW-154	09:54	9.65	0.65
EW-158	09:58	13.12	-2.62
IR01MW1-3	12:16	11.88	1.90
IR01MW43A	11:48	10.78	1.44
IR01MW44A	10:16	7.12	2.00
IR01MW47B	11:47	8.48	3.80
MW-60-1	12:12	12.82	1.87
MW-60-2	12:02	11.28	2.31
MW-60-3	10:32	7.61	2.39
MW-60-4	10:19	6.31	3.07
PZ-93D	10:14	7.79	2.58
PZ-100B	10:18	7.66	2.21
PZ-100E	10:21	dry @ 7.58	≤ 4.01
PZ-107C	10:29	7.85 oil in well	2.05
PZ-107D	10:26	7.59	2.65
PZ-107E	10:24	7.61	3.18
PZ-107F	10:23	8.15	3.44
PZ-114D	11:05	7.70	2.68

Location	Time	Depth to Water Level (ft TOC)	Groundwater Elevation (ft)
PZ-121A	11:05	8.32	2.85
PZ-121B	11:08	dry @ 8.79	≤ 2.83
PZ-121C	11:10	9.00	3.63
PZ-121E	11:12	7.66	4.03
PZ-121F	11:36	11.70	1.90
PZ-131A	11:45	10.43	2.79
PZ-131D	11:44	9.99	2.07
PZ-131E	11:43	11.51	2.62
PZ-131F	11:41	9.12	4.38
PZ-138A	11:46	11.11	2.48
PZ-138B	11:51	11.44	2.60
PZ-138C	11:53	12.61	1.74
PZ-138D	11:55	13.00	1.77
PZ-138E	11:56	dry @ 12.21	≤ 2.18
PZ-138F	N/A	E.C.	E.C.
PZ-144C	12:00	12.93	1.82
PZ-144E	11:28	13.21	1.87
PZ-150A	12:03	13.37	2.14
PZ-150B	12:05	12.87	1.80
PZ-150C	12:06	12.93	1.90
PZ-150D	12:07	13.28	1.87
PZ-150E	12:10	13.39	1.91
PZ-150F	N/A	E.C.	E.C.
PZ-159A	12:14	12.34	1.75
PZ-161D	12:11	13.24	2.02

NOTES:

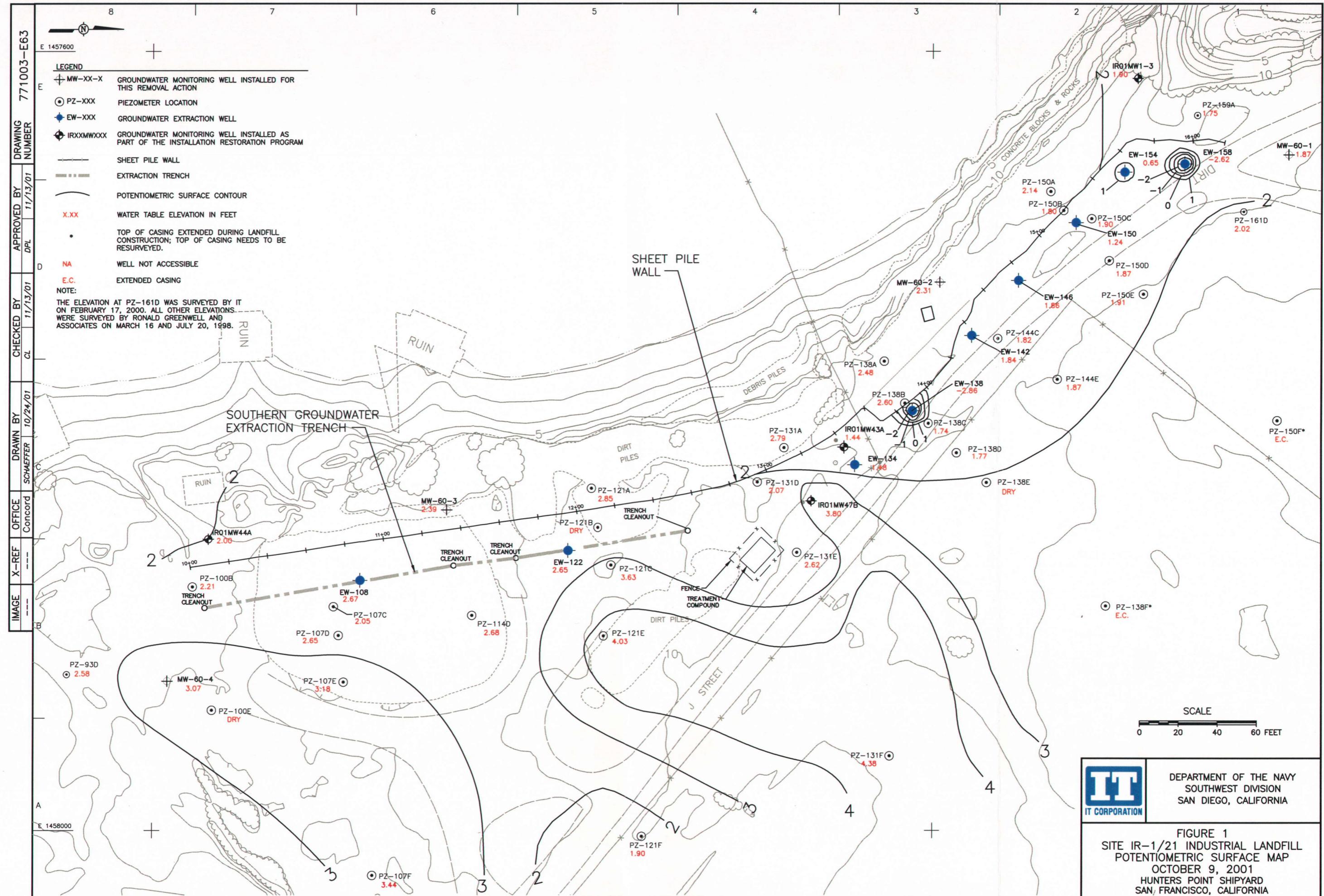
NA: Well not accessible

--: Not applicable

TOC: Top of Casing

ft: Feet

E.C. Extended Casing (the wells height has been changed but not yet surveyed)



APPENDIX B

EXTRACTION WELL AND SYSTEM READINGS

Monthly Extraction Well and System Readings
Contract Task Order 0082
Hunters Point Shipyard, Site IR-1/21 Industrial Landfill
Contract No. N62474-98-D-2076

IT Corporation
Project No. 831667

Date Recorded: 10/15/01
Operator: Ben Porter

Location	Time	Pressure (psi)	Flow Rate (gpm)	Total Flow (gal) (Since 02/20/99)	Change in Flow (gal) (09/15/01-10/15/01)
EW-108	953	60	7.4	264,545	1,137
EW-122	1000	55	8	149,409	232
EW-134	1004	0	0	186,067	112
EW-138	1008	60	3.4	2,211,479	115,981
EW-142	1017	70	6.4	239,052	1,004
EW-146	1020	0	0	721,388	16,550
EW-150	1024	70	4.2	2,108,898	62,377
EW-154	1031	0	0	183,465	6,820
EW-158	1034	20	7.2	8,016,861	615,469
Total Change in Flow at the Wells					819,682
Collection and Monitoring Pad	1038	4	8.7	11,868,330	825,650

Average Monthly Flow Rate, Using Readings at the Wells (gpm)	9.33
Average Monthly Flow Rate, Using Readings at Monitoring Pad (gpm)	9.40
Error of Flowmeter at the Monitoring Pad (%)	0.75%

Abbreviations:

psi = pounds per square inch
gpm = gallons per minute
gal = gallon
EW = extraction well
mS/CM = millisiemens/centimeter

APPENDIX C

RECTIFIER INSPECTION RECORD

Cathodic Protection System Monthly Inspection Record
Contract No. N62474-93-D-2151
Contract Task Order 0082
Hunters Point Shipyard, Site IR-1/21 Industrial Landfill
U. S. Navy Southwest Division

IT Corporation

Project No. 831667

Date	Rectifier 1 Output		Rectifier 2 Output		Taps	
	Volts	Amperes	Volts	Amperes	C	F
6/1/99	10.5	41.4	10.3	44.8	1	3
8/19/99	10.8	44.0	10.2	48.2	1	3
9/9/99	10.8	44.1	10.2	48.8	1	3
10/28/99	10.6	47.4	10.0	≥ 50.0	1	3
11/18/99	11.8	46.3	9.9	≥ 50.0	1	3
12/16/99	11.5	46.1	8.7	48.6	1	3
1/13/00	11.5	45.3	10.1	48.5	1	3
2/3/00	11.4	46.5	10.0	48.2	1	3
3/9/00	11.3	46.2	9.9	48.9	1	3
4/6/00	10.8	45.3	10.1	48.9	1	3
5/10/00	11.3	45.5	10.0	48.3	1	3
6/7/00	10.7	44.5	10.0	48.0	1	3
7/6/00	11.0	44.0	10.0	47.5	1	3
8/23/00	12	44	10	48	1	3
9/12/00	12	44	10	47.5	1	3
10/9/00	11	45	10	48	1	3
11/2/00	11	44	10	47.5	1	3
12/6/00	10.5	46	10	49.5	1	3

Cathodic Protection System Monthly Inspection Record
Contract No. N62474-93-D-2151
Contract Task Order 0082
Hunters Point Shipyard, Site IR-1/21 Industrial Landfill
U. S. Navy Southwest Division

IT Corporation

Project No. 831667

Date	Rectifier 1 Output		Rectifier 2 Output		Taps	
	Volts	Amperes	Volts	Amperes	C	F
6/7/00	10.7	44.5	10.0	48.0	1	3
12/6/00	10.5	46	10	49.5	1	3
1/9/01	11	46.5	10	≥ 50.0	1	3
2/6/01	11	48	10	≥ 50.0	1	3
3/23/01	11	45	10	48.5	1	3
4/6/01	12	46.5	10	≥ 50.0	1	3
5/17/01	11	47.0	10	≥ 50.0	1	3
6/18/01	10	41.0	16	41.0	1	3
7/19/01	10	41.0	16	41.0	1	3
8/15/01	10	42.0	16	42.0	1	3
9/00/01	no readings	no readings	no readings	no readings	1	3
10/9/01	10	42.0	16	42.0	1	3

\geq = greater than or equal to (gauge was maxed out)

APPENDIX D

SAMPLING DATA

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
 Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:
 The IT Group
 Attention: Ben Porter
 4005 Port Chicago Highway
 Concord CA 94520-1120
 Tel: (925)288-9898 Fax: (925)288-0888

APCL Analytical Report

Service ID #: 801-016036 Received: 09/27/01
 Collected by: Karnig Ohamsessian Extracted: 09/30-10/01/01
 Collected on: 09/26/01 Tested: 09/27-10/08/01
 Reported: 10/09/01
 Sample Description: Water from CTO 82
 Project Description: 831667 Hunter's Point

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 083-ES00126-71 01-06036-1
CHEMICAL OXYGEN DEMAND (COD)	410.4	mg-O ₂ /L	20	170
CHLORIDE CL ⁻	325.3	mg/L	1	1,600
CYANIDE	335.2	mg/L	0.05	<0.05
FLUORIDE	340.2	mg/L	0.1	0.69
IGNITABILITY (FLASHPOINT)	1010	°C	0.5 (a)	>100
OIL AND GREASE	413.2	mg/L	5	<5
PH	9040	pH unit	0.01	6.64
SOLIDS, TOTAL SUSPENDED (TSS)	160.2	mg/L	10	41
SULFIDE, DISSOLVED	376.2	mg/L	0.2	0.27
CHROMIUM (VI)	7196	mg/L	0.01	<0.01
TRPH	418.1	mg/L	5	<5
Dilution Factor				1
ORGANO LEAD	LUFT	µg/L	100	<100
TTLC 17 METALS				
Dilution Factor				1
ANTIMONY	6010B	µg/L	10	2.2J
ARSENIC	6010B	µg/L	5	<5
BARIUM	6010B	µg/L	10	810
BERYLLIUM	6010B	µg/L	2	<2
CADMUM	6010B	µg/L	2	<2
CHROMIUM	6010B	µg/L	5	11
COBALT	6010B	µg/L	5	1.9J
COPPER	6010B	µg/L	10	28
LEAD	6010B	µg/L	5	3.4J
MERCURY	7470A	µg/L	0.5	0.065J
MOLYBDENUM	6010B	µg/L	5	<5
NICKEL	6010B	µg/L	5	17
SELENIUM	6010B	µg/L	10	<10
SILVER	6010B	µg/L	10	<10
THALLIUM	6010B	µg/L	10	2.7J
VANADIUM	6010B	µg/L	10	5.0J
ZINC	6010B	µg/L	10	29

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 083-ES00126-71 01-06036-1
PHENOLS (b)				
Dilution Factor				1
4-CHLORO-3-METHYLPHENOL	8270	µg/L	10	9.9J
2-CHLOROPHENOL	8270	µg/L	10	< 10
2,4-DICHLOROPHENOL	8270	µg/L	10	< 10
2,6-DICHLOROPHENOL	8270	µg/L	10	< 10
2,4-DIMETHYLPHENOL	8270	µg/L	10	< 10
4,6-DINITRO-2-METHYLPHENOL	8270	µg/L	50	< 50
2,4-DINITROPHENOL	8270	µg/L	50	< 50
3/4-METHYLPHENOL (M/P-CRESOL)	8270	µg/L	10	< 10
2-METHYLPHENOL (O-CRESOL)	8270	µg/L	10	< 10
2-NITROPHENOL	8270	µg/L	10	< 10
4-NITROPHENOL	8270	µg/L	50	3.1J
PENTACHLOROPHENOL	8270	µg/L	50	< 50
PHENOL	8270	µg/L	10	3.4J
2,3,4,6-TETRACHLOROPHENOL	8270	µg/L	10	< 10
2,4,5-TRICHLOROPHENOL	8270	µg/L	10	< 10
2,4,6-TRICHLOROPHENOL	8270	µg/L	10	< 10
SEMI-VOLATILE ORGANICS, ABN FRACTIONS				
Dilution Factor				1
ACENAPHTHENE	8270C	µg/L	10	28
ACENAPHTHYLENE	8270C	µg/L	10	< 10
ANTHRACENE	8270C	µg/L	10	< 10
BENZO(A)ANTHRACENE	8270C	µg/L	10	< 10
BENZO(A)PYRENE	8270C	µg/L	10	< 10
BENZO(B)FLUORANTHENE	8270C	µg/L	10	< 10
BENZO(G,H,I)PERYLENE	8270C	µg/L	10	< 10
BENZO(K)FLUORANTHENE	8270C	µg/L	10	< 10
BIS(2-CHLOROETHOXY)METHANE	8270C	µg/L	10	< 10
BIS(2-CHLOROETHYL)ETHER	8270C	µg/L	10	< 10
2,2'-OXYBIS(1-CHLOROPROPANE)	8270C	µg/L	10	< 10
BIS(2-ETHYLHEXYL)PHTHALATE	8270C	µg/L	10	< 10
4-BROMOPHENYLPHENYLETHER	8270C	µg/L	10	< 10
BUTYL BENZYLPHTHALATE	8270C	µg/L	10	< 10
4-CHLORO-3-METHYLPHENOL	8270C	µg/L	20	9.9J
4-CHLOROANILINE	8270C	µg/L	20	< 20
2-CHLORONAPHTHALENE	8270C	µg/L	10	< 10
2-CHLOROPHENOL	8270C	µg/L	10	< 10
4-CHLOROPHENYLPHENYLETHER	8270C	µg/L	10	< 10
CHRYSENE	8270C	µg/L	10	< 10
DI-N-BUTYLPHTHALATE	8270C	µg/L	10	< 10
DI-N-OCTYLPHTHALATE	8270C	µg/L	10	< 10
DIBENZ(A,H)ANTHRACENE	8270C	µg/L	10	< 10
DIBENZOFURAN	8270C	µg/L	10	17
1,2-DICHLOROBENZENE	8270C	µg/L	10	< 10
1,3-DICHLOROBENZENE	8270C	µg/L	10	< 10
1,4-DICHLOROBENZENE	8270C	µg/L	10	5.8J
3,3'-DICHLOROBENZIDINE	8270C	µg/L	12 (c)	< 12
2,4-DICHLOROPHENOL	8270C	µg/L	10	< 10
DIETHYLPHTHALATE	8270C	µg/L	10	< 10
DIMETHYLPHTHALATE	8270C	µg/L	10	< 10
2,4-DIMETHYLPHENOL	8270C	µg/L	10	< 10
4,6-DINITRO-2-METHYLPHENOL	8270C	µg/L	50	< 50

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 083-ES00126-71 01-06036-1
2,4-DINITROPHENOL	8270C	µg/L	50	< 50
2,4-DINITROTOLUENE	8270C	µg/L	10	< 10
2,6-DINITROTOLUENE	8270C	µg/L	10	< 10
FLUORANTHENE	8270C	µg/L	10	1.9J
FLUORENE	8270C	µg/L	10	20
HEXACHLOROBENZENE	8270C	µg/L	10	< 10
HEXACHLOROBUTADIENE	8270C	µg/L	10	< 10
HEXACHLOROCYCLOPENTADIENE	8270C	µg/L	11 (c)	< 11
HEXACHLOROETHANE	8270C	µg/L	10	< 10
INDENO(1,2,3-CD)PYRENE	8270C	µg/L	10	< 10
ISOPHORONE	8270C	µg/L	10	< 10
2-METHYLNAPHTHALENE	8270C	µg/L	10	8.9J
3/4-METHYLPHENOL	8270C	µg/L	10	< 10
2-METHYLPHENOL	8270C	µg/L	10	< 10
NAPHTHALENE	8270C	µg/L	10	9.9J
2-NITROANILINE	8270C	µg/L	50	< 50
3-NITROANILINE	8270C	µg/L	50	< 50
4-NITROANILINE	8270C	µg/L	50	< 50
NITROBENZENE	8270C	µg/L	10	< 10
2-NITROPHENOL	8270C	µg/L	10	< 10
4-NITROPHENOL	8270C	µg/L	50	< 50
N-NITROSO-DI-N-PROPYLAMINE	8270C	µg/L	10	< 10
N-NITROSODIPHENYLAMINE	8270C	µg/L	10	< 10
PENTACHLOROPHENOL	8270C	µg/L	50	< 50
PHENANTHRENE	8270C	µg/L	10	13
PHENOL	8270C	µg/L	10	< 10
PYRENE	8270C	µg/L	10	1.6J
1,2,4-TRICHLOROBENZENE	8270C	µg/L	10	< 10
2,4,5-TRICHLOROPHENOL	8270C	µg/L	10	< 10
2,4,6-TRICHLOROPHENOL	8270C	µg/L	10	< 10
ORGANOCHLORINE PESTICIDES				
Dilution Factor				1
ALDRIN	8081A	µg/L	0.05	< 0.05
BETA BHC	8081A	µg/L	0.05	< 0.05
ALPHA BHC	8081A	µg/L	0.05	< 0.05
DELTA BHC	8081A	µg/L	0.05	< 0.05
GAMMA BHC (LINDANE)	8081A	µg/L	0.05	< 0.05
ALPHA-CHLORDANE	8081A	µg/L	0.05	< 0.05
GAMMA-CHLORDANE	8081A	µg/L	0.05	< 0.05
P,P'-DDD	8081A	µg/L	0.1	< 0.1
P,P'-DDE	8081A	µg/L	0.1	< 0.1
P,P'-DDT	8081A	µg/L	0.1	< 0.1
DIELDRIN	8081A	µg/L	0.1	< 0.1
ALPHA ENDOSULFAN	8081A	µg/L	0.05	< 0.05
BETA ENDOSULFAN	8081A	µg/L	0.1	< 0.1
ENDOSULFAN SULFATE	8081A	µg/L	0.5	< 0.5
ENDRIN	8081A	µg/L	0.1	< 0.1
ENDRIN ALDEHYDE	8081A	µg/L	0.1	< 0.1
ENDRIN KETONE	8081A	µg/L	0.1	< 0.1
HEPTACHLOR	8081A	µg/L	0.05	< 0.05
HEPTACHLOR EPOXIDE	8081A	µg/L	0.05	< 0.05
METHOXYCHLOR	8081A	µg/L	2	< 2
TOXAPHENE	8081A	µg/L	5	< 5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result
				083-ES00126-71
				01-06036-1
PCBS				
Dilution Factor				1
PCB-1016 (AROCLOR 1016)	8082	µg/L	1	< 1
PCB-1221 (AROCLOR 1221)	8082	µg/L	2	3.2
PCB-1232 (AROCLOR 1232)	8082	µg/L	1	< 1
PCB-1242 (AROCLOR 1242)	8082	µg/L	1	< 1
PCB-1248 (AROCLOR 1248)	8082	µg/L	1	< 1
PCB-1254 (AROCLOR 1254)	8082	µg/L	1	< 1
PCB-1260 (AROCLOR 1260)	8082	µg/L	1	< 1
CHLORINATED HERBICIDES				
Dilution Factor				1
ACIFLUORFEN	8151A	µg/L	1	< 1
BENTAZON	8151A	µg/L	0.5	< 0.5
CHLORAMBEN	8151A	µg/L	0.5	< 0.5
2,4-D	8151A	µg/L	0.5	< 0.5
2,4 DB	8151A	µg/L	0.5	< 0.5
DALAPON	8151A	µg/L	1	< 1
DICAMBA	8151A	µg/L	0.5	< 0.5
3,5-DICHLOROBENZOIC ACID	8151A	µg/L	0.5	< 0.5
DICHLOROPROP	8151A	µg/L	0.5	< 0.5
DINOSEB	8151A	µg/L	0.5	< 0.5
MCPA	8151A	µg/L	100	< 100
MCPP	8151A	µg/L	100	< 100
4-NITROPHENOL	8151A	µg/L	0.5	< 0.5
PENTACHLOROPHENOL	8151A	µg/L	0.5	< 0.5
PICLORAM	8151A	µg/L	0.5	< 0.5
2,4,5-T	8151A	µg/L	0.5	< 0.5
SILVEX (2,4,5-TP)	8151A	µg/L	0.5	< 0.5

Component Analyzed	Method	Unit	PQL	Analysis Result
				083-ES00126-71
				01-06036-1
				083-TB00126-72
				01-06036-2
VOLATILE ORGANICS				
Dilution Factor				1 (d)
ACETONE	8260B	µg/L	100	< 100
BENZENE	8260B	µg/L	1	8.1
BROMOBENZENE	8260B	µg/L	1	< 1
BROMOCHLOROMETHANE	8260B	µg/L	1	< 1
BROMODICHLOROMETHANE	8260B	µg/L	1	< 1

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result	
				083-ES00126-71 01-06036-1	083-TB00126-72 01-06036-2
BROMOFORM	8260B	µg/L	1	<1	<1
BROMOMETHANE	8260B	µg/L	1	<1	<1
2-BUTANONE	8260B	µg/L	100	<100	<100
N-BUTYLBENZENE	8260B	µg/L	1	1.0	<1
SEC-BUTYLBENZENE	8260B	µg/L	1	0.99J	<1
TERT-BUTYLBENZENE	8260B	µg/L	1	<1	<1
CARBON DISULFIDE	8260B	µg/L	5	<5	<5
CARBON TETRACHLORIDE	8260B	µg/L	1	<1	<1
CHLOROBENZENE	8260B	µg/L	1	98	<1
DIBROMOCHLOROMETHANE	8260B	µg/L	1	<1	<1
CHLOROETHANE	8260B	µg/L	1	<1	<1
CHLOROFORM	8260B	µg/L	1	<1	<1
CHLOROMETHANE	8260B	µg/L	1	<1	<1
2-CHLOROTOLUENE	8260B	µg/L	1	<1	<1
4-CHLOROTOLUENE	8260B	µg/L	1	<1	<1
1,2-DIBROMO-3-CHLOROPROPANE (DB)	8260B	µg/L	1	<1	<1
1,2-DIBROMOETHANE (EDB)	8260B	µg/L	1	<1	<1
DIBROMOMETHANE	8260B	µg/L	1	<1	<1
1,2-DICHLOROBENZENE	8260B	µg/L	1	1.3	<1
1,3-DICHLOROBENZENE	8260B	µg/L	1	2.0	<1
1,4-DICHLOROBENZENE	8260B	µg/L	1	9.3	<1
DICHLORODIFLUOROMETHANE	8260B	µg/L	1	2.2	<1
1,1-DICHLOROETHANE	8260B	µg/L	1	<1	<1
1,2-DICHLOROETHANE	8260B	µg/L	1	<1	<1
1,1-DICHLOROETHENE	8260B	µg/L	1	<1	<1
CIS-1,2-DICHLOROETHENE	8260B	µg/L	1	<1	<1
TRANS-1,2-DICHLOROETHENE	8260B	µg/L	1	<1	<1
1,2-DICHLOROPROPANE	8260B	µg/L	1	<1	<1
1,3-DICHLOROPROPANE	8260B	µg/L	1	<1	<1
2,2-DICHLOROPROPANE	8260B	µg/L	1	<1	<1
1,1-DICHLOROPROPENE	8260B	µg/L	1	<1	<1
CIS-1,3-DICHLOROPROPENE	8260B	µg/L	1	<1	<1
TRANS-1,3-DICHLOROPROPENE	8260B	µg/L	1	<1	<1
ETHYLBENZENE	8260B	µg/L	1	0.30J	<1
HEXACHLOROBUTADIENE	8260B	µg/L	1	<1	<1
ISOPROPYLBENZENE (CUMENE)	8260B	µg/L	1	1.6	<1
P-ISOPROPYLtolUENE	8260B	µg/L	1	<1	<1
METHYLENE CHLORIDE	8260B	µg/L	2 (c)	2.1	4.4
4-METHYL-2-PENTANONE	8260B	µg/L	50	<50	<50
TERT-BUTYL METHYL ETHER	8260B	µg/L	10	<10	<10
NAPHTHALENE	8260B	µg/L	1	17	<1

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result	
				083-ES00126-71 01-06036-1	083-TB00126-72 01-06036-2
N-PROPYLBENZENE	8260B	µg/L	1	1.4	<1
STYRENE	8260B	µg/L	1	<1	<1
1,1,1,2-TETRACHLOROETHANE	8260B	µg/L	1	<1	<1
1,1,2,2-TETRACHLOROETHANE	8260B	µg/L	1	<1	<1
TETRACHLOROETHENE	8260B	µg/L	1	<1	<1
TOLUENE	8260B	µg/L	1	0.82J	<1
1,2,3-TRICHLOROBENZENE	8260B	µg/L	1	<1	<1
1,2,4-TRICHLOROBENZENE	8260B	µg/L	1	<1	<1
1,1,1-TRICHLOROETHANE	8260B	µg/L	1	<1	<1
1,1,2-TRICHLOROETHANE	8260B	µg/L	1	<1	<1
TRICHLOROETHENE	8260B	µg/L	1	<1	<1
TRICHLOROFLUOROMETHANE	8260B	µg/L	1	<1	<1
1,2,3-TRICHLOROPROPANE	8260B	µg/L	1	<1	<1
1,2,4-TRIMETHYLBENZENE	8260B	µg/L	1	0.73J	<1
1,3,5-TRIMETHYLBENZENE	8260B	µg/L	1	0.31J	<1
VINYL CHLORIDE	8260B	µg/L	1	<1	<1
XYLENE (TOTAL)	8260B	µg/L	1	2.0	<1

PQL: Practical Quantitation Limit. MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

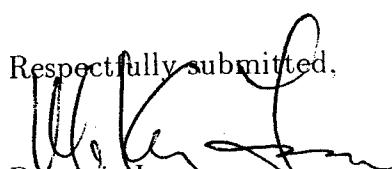
(a) Corresponds to the minimum reading of the thermometer used.

(b) Analyzed by GC/MS.

(c) MDL reported.

(d) Sample also contained about 21 µg/L of Tetrahydrofuran.

Respectfully submitted,


 Dominic Lau
 Laboratory Director
 Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

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Case Narrative

Project: Hunter's Point/CTO 82/831667

For The IT Group

APCL Service No: 01-6036

1. Sample Identification

The sample identifications are listed in the following table:

The IT Group	Sample ID	APCL Sample ID
083-ES00126-71		01-06036-1
083-TB00126-72		01-06036-2

2. Analytical Methodology

Samples are analyzed by EPA methods

325.3 (Chloride Cl⁻),
340.2 (Fluoride),
160.2 (Solids, Total Suspended (TSS)),
9040B (pH),
1010 (Ignitability (Flashpoint)),
6010B (TTLIC 17 Metals),
413.2 (Oil and Grease),
418.1 (TRPH),
7196A (Chromium (VI)),
LUFT-Pb (Organo Lead),
410.4 (Chemical Oxygen Demand (COD)),
8270C (Semi-VOC, 64 Compounds),
8081A (Organochlorine pesticides),
8082 (PCBs),
8151A (Chlorinated herbicides),
8260B (Volatile organics),
335.2 (Cyanide, Total),
376.1 (Sulfide, Dissolved),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,



Kevin Xie, Ph.D.,

QA/QC Director

Applied P & Ch Laboratory

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260B

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/29/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	01G4507-MB-01	Lab Sample ID:	01G4507-MB-01	Received Date:	09/29/2001
Sample Type:	Method Blank	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8260B	Prep. Method:	5030	Instrument ID:	GC/MS: C
Batch No:	01G4507	Prep. Date:	09/29/01	Anal. Date:	09/29/01
Data File Name:	G4507K01	Prep. No:	-	Anal. Time:	05:30
Methanol Vol.	-	Sample Amount:	5.0 mL	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	100	<100	U
2	BENZENE	71-43-2	µg/L	1	<1	U
3	BROMOBENZENE	108-86-1	µg/L	1	<1	U
4	BROMOCHLOROMETHANE	74-97-5	µg/L	1	<1	U
5	BROMODICHLOROMETHANE	75-27-4	µg/L	1	<1	U
6	BROMOFORM	75-25-2	µg/L	1	<1	U
7	BROMOMETHANE	74-83-9	µg/L	1	<1	U
8	2-BUTANONE	78-93-3	µg/L	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/L	1	<1	U
10	SEC-BUTYLBENZENE	135-98-8	µg/L	1	<1	U
11	TERT-BUTYLBENZENE	98-06-6	µg/L	1	<1	U
12	CARBON DISULFIDE	75-15-0	µg/L	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/L	1	<1	U
14	CHLOROBENZENE	108-90-7	µg/L	1	<1	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/L	1	<1	U
16	CHLOROETHANE	75-00-3	µg/L	1	<1	U
17	CHLOROFORM	67-66-3	µg/L	1	<1	U
18	CHLOROMETHANE	74-87-3	µg/L	1	<1	U
19	2-CHLOROTOLUENE	95-49-8	µg/L	1	<1	U
20	4-CHLOROTOLUENE	106-43-4	µg/L	1	<1	U
21	1,2-DIBROMO-3-CHLOROPROPANE (DB)	96-12-8	µg/L	1	<1	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	1	<1	U
23	DIBROMOMETHANE	74-95-3	µg/L	1	<1	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/L	1	<1	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/L	1	<1	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/L	1	<1	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	1	<1	U
28	1,1-DICHLOROETHANE	75-34-3	µg/L	1	<1	U
29	1,2-DICHLOROETHANE	107-06-2	µg/L	1	<1	U
30	1,1-DICHLOROETHENE	75-35-4	µg/L	1	<1	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	1	<1	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	1	<1	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/L	1	<1	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/L	1	<1	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/L	1	<1	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/L	1	<1	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	1	<1	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	1	<1	U
39	ETHYLBENZENE	100-41-4	µg/L	1	<1	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	1	<1	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	1	<1	U
42	P-ISOPROPYLtoluene	99-87-6	µg/L	1	<1	U
43	METHYLENE CHLORIDE	75-09-2	µg/L	2	<2	U
44	4-METHYL-2-PENTANONE	108-10-1	µg/L	50	<50	U
45	TERT-BUTYL METHYL ETHER	1634-04-4	µg/L	10	<10	U
46	NAPHTHALENE	91-20-3	µg/L	1	<1	U
47	N-PROPYLBENZENE	103-65-1	µg/L	1	<1	U
48	STYRENE	100-42-5	µg/L	1	<1	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	1	<1	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	1	<1	U
51	TETRACHLOROETHENE	127-18-4	µg/L	1	<1	U
52	TOLUENE	108-88-3	µg/L	1	<1	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	1	<1	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	1	<1	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	1	<1	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	1	<1	U
57	TRICHLOROETHENE	79-01-6	µg/L	1	<1	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	1	<1	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	1	<1	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	1	<1	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	1	<1	U
62	VINYL CHLORIDE	75-01-4	µg/L	1	<1	U
63	XYLENE (TOTAL)		µg/L	1	<1	U

Surrogates

		Control Limit, %	Surro. Rec.%
1	4-BROMO-FLUOROBENZENE (BFB)	460-00-4	80-119
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119
4	TOLUENE-D8	2037-26-5	81-118
# of out-of-control			107
			0

Internal Standard

		Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200
3	FLUOROBENZENE	462-06-6	50-200
# of out-of-control			101
			101
			103
			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260B

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/26/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	083-ES00126-71	Lab Sample ID:	01-6036-1	Received Date:	09/27/2001
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8260B	Prep. Method:	5030	Instrument ID:	GC/MS: C
Batch No:	01G4507	Prep. Date:	09/29/01	Anal. Date:	09/29/01
Data File Name:	6036-01	Prep. No:	-	Anal. Time:	11:39
Methanol Vol.	-	Sample Amount:	5.0 mL	Dilution Factor:	1 (^d)
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N)	Y

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	100	<100	U
2	BENZENE	71-43-2	µg/L	1	8.1	
3	BROMOBENZENE	108-86-1	µg/L	1	<1	U
4	BROMOCHLOROMETHANE	74-97-5	µg/L	1	<1	U
5	BROMODICHLOROMETHANE	75-27-4	µg/L	1	<1	U
6	BROMOFORM	75-25-2	µg/L	1	<1	U
7	BROMOMETHANE	74-83-9	µg/L	1	<1	U
8	2-BUTANONE	78-93-3	µg/L	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/L	1	1.0	
10	SEC-BUTYLBENZENE	135-98-8	µg/L	1	0.99	J
11	TERT-BUTYLBENZENE	98-06-6	µg/L	1	<1	U
12	CARBON DISULFIDE	75-15-0	µg/L	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/L	1	<1	U
14	CHLOROBENZENE	108-90-7	µg/L	1	98	
15	DIBROMOCHLOROMETHANE	124-48-1	µg/L	1	<1	U
16	CHLOROETHANE	75-00-3	µg/L	1	<1	U
17	CHLOROFORM	67-66-3	µg/L	1	<1	U
18	CHLOROMETHANE	74-87-3	µg/L	1	<1	U
19	2-CHLOROTOLUENE	95-49-8	µg/L	1	<1	U
20	4-CHLOROTOLUENE	106-43-4	µg/L	1	<1	U
21	1,2-DIBROMO-3-CHLOROPROPANE (DB)	96-12-8	µg/L	1	<1	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	1	<1	U
23	DIBROMOMETHANE	74-95-3	µg/L	1	<1	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/L	1	1.3	
25	1,3-DICHLOROBENZENE	541-73-1	µg/L	1	2.0	
26	1,4-DICHLOROBENZENE	106-46-7	µg/L	1	9.3	
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	1	2.2	
28	1,1-DICHLOROETHANE	75-34-3	µg/L	1	<1	U
29	1,2-DICHLOROETHANE	107-06-2	µg/L	1	<1	U
30	1,1-DICHLOROETHENE	75-35-4	µg/L	1	<1	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	1	<1	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	1	<1	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/L	1	<1	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/L	1	<1	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/L	1	<1	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/L	1	<1	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	1	<1	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	1	<1	U
39	ETHYLBENZENE	100-41-4	µg/L	1	0.30	J

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	1	< 1	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	1	1.6	
42	P-ISOPROPYLtoluene	99-87-6	µg/L	1	< 1	U
43	METHYLENE CHLORIDE	75-09-2	µg/L	2 (c)	2.1	
44	4-METHYL-2-PENTANONE	108-10-1	µg/L	50	< 50	U
45	TERT-BUTYL METHYL ETHER	1634-04-4	µg/L	10	< 10	U
46	NAPHTHALENE	91-20-3	µg/L	1	17	
47	N-PROPYLBENZENE	103-65-1	µg/L	1	1.4	
48	STYRENE	100-42-5	µg/L	1	< 1	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	1	< 1	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	1	< 1	U
51	TETRACHLOROETHENE	127-18-4	µg/L	1	< 1	U
52	TOLUENE	108-88-3	µg/L	1	0.82	J
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	1	< 1	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	1	< 1	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	1	< 1	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	1	< 1	U
57	TRICHLOROETHENE	79-01-6	µg/L	1	< 1	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	1	< 1	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	1	< 1	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	1	0.73	J
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	1	0.31	J
62	VINYL CHLORIDE	75-01-4	µg/L	1	< 1	U
63	XYLENE (TOTAL)		µg/L	1	2.0	

Surrogates

			Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL	460-00-4	80-119	103
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120	110
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119	100
4	TOLUENE-D8	2037-26-5	81-118	107
# of out-of-control				0

Internal Standard

			Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200	99
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	100
3	FLUOROBENZENE	462-06-6	50-200	101
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

(c)MDL reported. (d)Sample also contained about 21 µg/L of Tetrahydrofuran.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8260B

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/26/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	083-TB00126-72	Lab Sample ID:	01-6036-2	Received Date:	09/27/2001
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8260B	Prep. Method:	5030	Instrument ID:	GC/MS: C
Batch No:	01G4507	Prep. Date:	09/29/01	Anal. Date:	09/29/01
Data File Name:	6036-02	Prep. No:	-	Anal. Time:	11:12
Methanol Vol.	-	Sample Amount:	5.0 mL	Dilution Factor:	1
Test Level:	Low	Sparge Size:	5 mL	Heated Purge: (Y/N) Y	

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACETONE	67-64-1	µg/L	100	<100	U
2	BENZENE	71-43-2	µg/L	1	<1	U
3	BROMOBENZENE	108-86-1	µg/L	1	<1	U
4	BROMOCHLOROMETHANE	74-97-5	µg/L	1	<1	U
5	BROMODICHLOROMETHANE	75-27-4	µg/L	1	<1	U
6	BROMOFORM	75-25-2	µg/L	1	<1	U
7	BROMOMETHANE	74-83-9	µg/L	1	<1	U
8	2-BUTANONE	78-93-3	µg/L	100	<100	U
9	N-BUTYLBENZENE	104-51-8	µg/L	1	<1	U
10	SEC-BUTYLBENZENE	135-98-8	µg/L	1	<1	U
11	TERT-BUTYLBENZENE	98-06-6	µg/L	1	<1	U
12	CARBON DISULFIDE	75-15-0	µg/L	5	<5	U
13	CARBON TETRACHLORIDE	56-23-5	µg/L	1	<1	U
14	CHLOROBENZENE	108-90-7	µg/L	1	<1	U
15	DIBROMOCHLOROMETHANE	124-48-1	µg/L	1	<1	U
16	CHLOROETHANE	75-00-3	µg/L	1	<1	U
17	CHLOROFORM	67-66-3	µg/L	1	<1	U
18	CHLOROMETHANE	74-87-3	µg/L	1	<1	U
19	2-CHLOROTOLUENE	95-49-8	µg/L	1	<1	U
20	4-CHLOROTOLUENE	106-43-4	µg/L	1	<1	U
21	1,2-DIBROMO-3-CHLOROPROPANE (DB)	96-12-8	µg/L	1	<1	U
22	1,2-DIBROMOETHANE (EDB)	106-93-4	µg/L	1	<1	U
23	DIBROMOMETHANE	74-95-3	µg/L	1	<1	U
24	1,2-DICHLOROBENZENE	95-50-1	µg/L	1	<1	U
25	1,3-DICHLOROBENZENE	541-73-1	µg/L	1	<1	U
26	1,4-DICHLOROBENZENE	106-46-7	µg/L	1	<1	U
27	DICHLORODIFLUOROMETHANE	75-71-8	µg/L	1	<1	U
28	1,1-DICHLOROETHANE	75-34-3	µg/L	1	<1	U
29	1,2-DICHLOROETHANE	107-06-2	µg/L	1	<1	U
30	1,1-DICHLOROETHENE	75-35-4	µg/L	1	<1	U
31	CIS-1,2-DICHLOROETHENE	156-59-2	µg/L	1	<1	U
32	TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	1	<1	U
33	1,2-DICHLOROPROPANE	78-87-5	µg/L	1	<1	U
34	1,3-DICHLOROPROPANE	142-28-9	µg/L	1	<1	U
35	2,2-DICHLOROPROPANE	594-20-7	µg/L	1	<1	U
36	1,1-DICHLOROPROPENE	563-58-6	µg/L	1	<1	U
37	CIS-1,3-DICHLOROPROPENE	10061-01-5	µg/L	1	<1	U
38	TRANS-1,3-DICHLOROPROPENE	10061-02-6	µg/L	1	<1	U
39	ETHYLBENZENE	100-41-4	µg/L	1	<1	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	1	<1	U
41	ISOPROPYLBENZENE (CUMENE)	98-82-8	µg/L	1	<1	U
42	P-ISOPROPYLtolUENE	99-87-6	µg/L	1	<1	U
43	METHYLENE CHLORIDE	75-09-2	µg/L	2 (c)	4.4	
44	4-METHYL-2-PENTANONE	108-10-1	µg/L	50	<50	U
45	TERT-BUTYL METHYL ETHER	1634-04-4	µg/L	10	<10	U
46	NAPHTHALENE	91-20-3	µg/L	1	<1	U
47	N-PROPYLBENZENE	103-65-1	µg/L	1	<1	U
48	STYRENE	100-42-5	µg/L	1	<1	U
49	1,1,1,2-TETRACHLOROETHANE	630-20-6	µg/L	1	<1	U
50	1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	1	<1	U
51	TETRACHLOROETHENE	127-18-4	µg/L	1	<1	U
52	TOLUENE	108-88-3	µg/L	1	<1	U
53	1,2,3-TRICHLOROBENZENE	87-61-6	µg/L	1	<1	U
54	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	1	<1	U
55	1,1,1-TRICHLOROETHANE	71-55-6	µg/L	1	<1	U
56	1,1,2-TRICHLOROETHANE	79-00-5	µg/L	1	<1	U
57	TRICHLOROETHENE	79-01-6	µg/L	1	<1	U
58	TRICHLOROFLUOROMETHANE	75-69-4	µg/L	1	<1	U
59	1,2,3-TRICHLOROPROPANE	96-18-4	µg/L	1	<1	U
60	1,2,4-TRIMETHYLBENZENE	95-63-6	µg/L	1	<1	U
61	1,3,5-TRIMETHYLBENZENE	108-67-8	µg/L	1	<1	U
62	VINYL CHLORIDE	75-01-4	µg/L	1	<1	U
63	XYLENE (TOTAL)		µg/L	1	<1	U

Surrogates

		Control Limit, %	Surro. Rec.%
1	1-BROMO-4-FLUOROBENZENE (4-BROMOFL	460-00-4	80-119
2	DIBROMOFLUOROMETHANE	1868-53-7	79-120
3	1,2-DICHLOROETHANE-D4	17060-07-0	81-119
4	TOLUENE-D8	2037-26-5	81-118
# of out-of-control			0

Internal Standard

		Control Limit, %	IS Rec.%
1	CHLOROBENZENE-D5	3114-55-4	50-200
2	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200
3	FLUOROBENZENE	462-06-6	50-200
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

(c) MDL reported.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater
than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8270

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/30/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	01G4514-MB-01	Lab Sample ID:	01G4514-MB-01	Received Date:	09/30/2001
Sample Type:	Method Blank	Sample Matrix:	Water	Moisture %:	-
Anal. Method:	8270	Prep. Method:	3510	Instrument ID:	GC/MS: Z
Batch No:	01G4514	Prep. Date:	09/30/01	Anal. Date:	10/01/01
Data File Name:	G4514K01	Prep. No:	1 of 1	Anal. Time:	19:42
Extract Vol.	1.0 mL	Sample Amount:	1000 mL	Dilution Factor:	1

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	4-CHLORO-3-METHYLPHENOL	59-50-7	µg/L	10	< 10	U
2	2-CHLOROPHENOL	95-57-8	µg/L	10	< 10	U
3	2,4-DICHLOROPHENOL	120-83-2	µg/L	10	< 10	U
4	2,6-DICHLOROPHENOL	87-65-0	µg/L	10	< 10	U
5	2,4-DIMETHYLPHENOL	105-67-9	µg/L	10	< 10	U
6	4,6-DINITRO-2-METHYLPHENOL	534-52-1	µg/L	50	< 50	U
7	2,4-DINITROPHENOL	51-28-5	µg/L	50	< 50	U
8	3/4-METHYLPHENOL (M/P-CRESOL)	106-44-5	µg/L	10	< 10	U
9	2-METHYLPHENOL (O-CRESOL)	95-48-7	µg/L	10	< 10	U
10	2-NITROPHENOL	88-75-5	µg/L	10	< 10	U
11	4-NITROPHENOL	100-02-7	µg/L	50	< 50	U
12	PENTACHLOROPHENOL	87-86-5	µg/L	50	< 50	U
13	PHENOL	108-95-2	µg/L	10	< 10	U
14	2,3,4,6-TETRACHLOROPHENOL	58-90-2	µg/L	10	< 10	U
15	2,4,5-TRICHLOROPHENOL	95-95-4	µg/L	10	< 10	U
16	2,4,6-TRICHLOROPHENOL	88-06-2	µg/L	10	< 10	U

Surrogates		Control Limit, %	Surro. Rec.%
1	2-FLUOROBIPHENYL	321-60-8	43-115
2	2-FLUOROPHENOL	367-12-4	21- 99
3	NITROBENZENE-D5	4165-60-0	35-113
4	PHENOL-D5	4165-62-2	10- 93
5	TERPHENYL-D14	1718-51-0	33-140
6	2,4,6-TRIBROMOPHENOL	118-79-6	10-122
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1	ACENAPHTHENE-D10	15067-26-2	50-200
2	CHRYSENE-D12	1719-03-5	50-200
3	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200
4	NAPHTHALENE-D8	1146-65-2	50-200
5	PERYLENE-D12	1520-96-3	50-200
6	PHENANTHRENE-D10	1517-22-2	50-200
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8270

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/26/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	083-ES00126-71	Lab Sample ID:	01-6036-1	Received Date:	09/27/2001
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8270	Prep. Method:	3510	Instrument ID:	GC/MS: Z
Batch No:	01G4514	Prep. Date:	09/30/01	Anal. Date:	10/02/01
Data File Name:	6036-01	Prep. No:	1 of 1	Anal. Time:	14:08
Extract Vol.	1.0 mL	Sample Amount:	1000 mL	Dilution Factor:	1

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	4-CHLORO-3-METHYLPHENOL	59-50-7	µg/L	10	9.9	J
2	2-CHLOROPHENOL	95-57-8	µg/L	10	< 10	U
3	2,4-DICHLOROPHENOL	120-83-2	µg/L	10	< 10	U
4	2,6-DICHLOROPHENOL	87-65-0	µg/L	10	< 10	U
5	2,4-DIMETHYLPHENOL	105-67-9	µg/L	10	< 10	U
6	4,6-DINITRO-2-METHYLPHENOL	534-52-1	µg/L	50	< 50	U
7	2,4-DINITROPHENOL	51-28-5	µg/L	50	< 50	U
8	3/4-METHYLPHENOL (M/P-CRESOL)	106-44-5	µg/L	10	< 10	U
9	2-METHYLPHENOL (O-CRESOL)	95-48-7	µg/L	10	< 10	U
10	2-NITROPHENOL	88-75-5	µg/L	10	< 10	U
11	4-NITROPHENOL	100-02-7	µg/L	50	3.1	J
12	PENTACHLOROPHENOL	87-86-5	µg/L	50	< 50	U
13	PHENOL	108-95-2	µg/L	10	3.4	J
14	2,3,4,6-TETRACHLOROPHENOL	58-90-2	µg/L	10	< 10	U
15	2,4,5-TRICHLOROPHENOL	95-95-4	µg/L	10	< 10	U
16	2,4,6-TRICHLOROPHENOL	88-06-2	µg/L	10	< 10	U

Surrogates		Control Limit, %	Surro. Rec.%
1	2-FLUOROBIPHENYL	43-115	62
2	2-FLUOROPHENOL	21- 99	48
3	NITROBENZENE-D5	35-113	73
4	PHENOL-D5	10- 93	36
5	TERPHENYL-D14	33-140	89
6	2,4,6-TRIBROMOPHENOL	10-122	76
# of out-of-control		0	

Internal Standard		Control Limit, %	IS Rec.%
1	ACENAPHTHENE-D10	15067-26-2	50-200
2	CHRYSENE-D12	1719-03-5	50-200
3	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200
4	NAPHTHALENE-D8	1146-65-2	50-200
5	PERYLENE-D12	1520-96-3	50-200
6	PHENANTHRENE-D10	1517-22-2	50-200
# of out-of-control		0	

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

E - Exceed calibration range

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

B - A positive value was found in the method blank

D - Diluted

FORM-2C

Applied P & Ch Laboratory

Surrogate Recovery Summary for Method 8270

Client Name: The IT Group

Contract No:

APCL

Case No:

SAS No:

016036

Project ID: Hunter's Point

Project No: 831667

Sample Matrix: Water

Batch No: 01G4514

#	Client Sample No	Lab Sample ID	S1 % #	S2 % #	S3 % #	S4 % #	S5 % #	S6 % #	TOT OUT
1	01G4514-MB-01	01G4514-MB-01	61	67	69	59	93	36	0
2	01G4514-LCS-01	01G4514-LCS-01	65	58	67	71	61	65	0
3	01G4514-LSD-01	01G4514-LSD-01	65	65	69	72	61	66	0
4	DMO-08-MWAMS	01-6037-8MS	52	37	58	28	70	44	0
5	DMO-08-MWAMSD	01-6037-8MSD	51	36	58	27	70	44	0
6	083-ES00126-71	01-6036-1	62	48	73	36	89	76	0
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

QC Control Limit

S1 = 2-FLUOROBIPHENYL	43-115
S2 = 2-FLUOROPHENOL	21- 99
S3 = NITROBENZENE-D5	35-113
S4 = PHENOL-D5	10- 93
S5 = TERPHENYL-D14	33-140
S6 = 2,4,6-TRIBROMOPHENOL	10-122

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits

D - Surrogate diluted out

I - Matrix Interference

FORM-3C

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8041

Client Name: The IT Group Contract No: Lab Code: APCL
 Case No: SAS No: Service ID: 16036
 Project ID: Hunter's Point Project No: 831667 Sample Matrix: Water
 LCS Filename: G4514L01 Batch No: 01G4514A
 LCSD Filename: G4514J01 Date Analyzed: 100101 Time Analyzed: 20:22
 Date Analyzed: 100101 Time Analyzed: 21:02

Spiked Components	Unit	Spike Added	Concentration	LCS	LCS Rec% #	QC Limit, % REC
			Unspiked	LCS		
ACENAPHTHENE	µg/L	50	0	36.0	72	41-113
4-CHLORO-3-METHYLPHENOL	µg/L	100	0	79.7	80	33-113
2-CHLOROPHENOL	µg/L	100	0	75.9	76	36-110
1,4-DICHLOROBENZENE	µg/L	50	0	32.3	65	38-111
2,4-DINITROTOLUENE	µg/L	50	0	36.8	74	35-117
4-NITROPHENOL	µg/L	500	0	376	75	10-133
N-NITROSODI-N-PROPYLAMINE	µg/L	50	0	35.6	71	31-122
PENTACHLOROPHENOL	µg/L	500	0	367	73	12-130
PHENOL	µg/L	100	0	66.8	67	30-106
PYRENE	µg/L	50	0	37.0	74	31-131
1,2,4-TRICHLOROBENZENE	µg/L	50	0	32.6	65	38-113
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD REC
ACENAPHTHENE	µg/L	50	35.8	72	0	36 41-113
4-CHLORO-3-METHYLPHENOL	µg/L	100	81.1	81	1	41 33-113
2-CHLOROPHENOL	µg/L	100	74.1	74	3	37 36-110
1,4-DICHLOROBENZENE	µg/L	50	32.3	65	0	36 38-111
2,4-DINITROTOLUENE	µg/L	50	36.8	74	0	41 35-117
4-NITROPHENOL	µg/L	500	386	77	3	62 10-133
N-NITROSODI-N-PROPYLAMINE	µg/L	50	33.8	68	4	45 31-122
PENTACHLOROPHENOL	µg/L	500	365	73	0	59 12-130
PHENOL	µg/L	100	66.4	66	2	38 30-106
PYRENE	µg/L	50	37.0	74	0	50 31-131
1,2,4-TRICHLOROBENZENE	µg/L	50	33.2	66	2	38 38-113
# of Out-of-control				0	0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits

D - Spiked components diluted out

Comments: _____



A P C L

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel. (909) 590-1828 Fax (909) 590-1498

October 12, 2001

The IT Group
Attention: Ben Porter
4005 Port Chicago Highway
Concord, CA 94520-1120

Dear Ben,

This package contains samples in our Service ID 01-6036 and your project 831667 Hunters Point.
Enclosed please find:

- (1) Original report.
- (2) Copy of Chain of Custody.
- (3) One Diskette containing EDD Deliverable.
- (4) One original and one copy of Level C Data Package Deliverable.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,



Kevin Xie, Ph.D.,
QA/QC Director
Applied P & Ch Laboratory

FORM-3C

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8041

Client Name:	The IT Group	Contract No:	APCL
Case No:		SAS No:	16036
Project ID:	Hunter's Point	Project No:	831667
		Batch No:	01G4514A
MS Filename:	G4514M01	Date Analyzed:	100101
MSD Filename:	G4514N01	Date Analyzed:	100101
MS Sample No:	DMO-08-MWA	Sample Lab ID:	01-6037-8
		Time Analyzed:	21:41
		Time Analyzed:	22:20

Spiked Components	Unit	Spike Added	Concentration	MS Rec% #	QC Limit, % REC
			Unspiked MS		
ACENAPHTHENE	µg/L	50	0	23.6	47 11-134
4-CHLORO-3-METHYLPHENOL	µg/L	100	0	59.0	59 13-130
2-CHLOROPHENOL	µg/L	100	0	59.7	60 20-111
1,4-DICHLOROBENZENE	µg/L	50	0	27.2	54 23-111
2,4-DINITROTOLUENE	µg/L	50	0	26.5	53 10-134
4-NITROPHENOL	µg/L	500	0	117	23 20-138
N-NITROSODI-N-PROPYLAMINE	µg/L	50	0	30.3	61 16-130
PENTACHLOROPHENOL	µg/L	500	0	160	32 24-115
PHENOL	µg/L	100	0	22.0	22 10-126
PYRENE	µg/L	50	0	39.7	79 12-134
1,2,4-TRICHLOROBENZENE	µg/L	50	0	26.6	53 27-112
# of Out-of-control				0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD REC
ACENAPHTHENE	µg/L	50	23.0	46	2	62 11-134
4-CHLORO-3-METHYLPHENOL	µg/L	100	58.1	58	2	58 13-130
2-CHLOROPHENOL	µg/L	100	60.0	60	0	46 20-111
1,4-DICHLOROBENZENE	µg/L	50	27.3	55	2	44 23-111
2,4-DINITROTOLUENE	µg/L	50	25.7	51	4	62 10-134
4-NITROPHENOL	µg/L	500	114	23	0	50 20-138
N-NITROSODI-N-PROPYLAMINE	µg/L	50	30.3	61	0	57 16-130
PENTACHLOROPHENOL	µg/L	500	169	34	6	45 24-115
PHENOL	µg/L	100	19.2	19	15	58 10-126
PYRENE	µg/L	50	39.3	79	0	61 12-134
1,2,4-TRICHLOROBENZENE	µg/L	50	27.0	54	2	43 27-112
# of Out-of-control				0	0	

Column to be used to flag recovery and RPD values:

* - Values outside of contract required QC Limits

D - Spiked components diluted out

Comments: _____

FORM-4B
Applied P & Ch Laboratory
Method Blank Summary for Method 8270

Client Name:	The IT Group	Contract No:	APCL
Case No:		SAS No:	16036
Project ID:	Hunter's Point	Project No:	831667
Sample ID:	01G4514-MB-01	Sample Matrix:	Water
Lab Sample ID:	01G4514-MB-01	Batch No:	01G4514
		Data File Name:	G4514K01

Lab Code:	APCL
Service ID:	16036
Analysis Date:	10/01/01
Analysis Time:	19:42
Instrument ID:	GC/MS: Z
GC Column:	DB-5.625
Column ID:	0.25 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	01G4514-LCS-01	01G4514-LCS-01	Lab Control Spike	G4514L01	10/01/01	20:22
2	01G4514-LSD-01	01G4514-LSD-01	Lab Control Spike Duplicate	G4514J01	10/01/01	21:02
3	DMO-08-MWAMS	01-6037-8MS	Matrix Spike	G4514M01	10/01/01	21:41
4	DMO-08-MWAMSD	01-6037-8MSD	Matrix Spike Duplicate	G4514N01	10/01/01	22:20
5	083-ES00126-71	01-6036-1	Field Sample	6036-01	10/02/01	14:08
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Applied P & Ch Laboratory
Organic Analysis Results for Method 8270C

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/30/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	01G4514-MB-01	Lab Sample ID:	01G4514-MB-01	Received Date:	09/30/2001
Sample Type:	Method Blank	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8270C	Prep. Method:	3510	Instrument ID:	GC/MS: Z
Batch No:	01G4514	Prep. Date:	09/30/01	Anal. Date:	10/01/01
Data File Name:	G4514K01	Prep. No:	1 of 1	Anal. Time:	19:42
Extract Vol.	1.0 mL	Sample Amount:	1000 mL	Dilution Factor:	1

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACENAPHTHENE	83-32-9	µg/L	10	<10	U
2	ACENAPHTHYLENE	208-96-8	µg/L	10	<10	U
3	ANTHRACENE	120-12-7	µg/L	10	<10	U
4	BENZO(A)ANTHRACENE	56-55-3	µg/L	10	<10	U
5	BENZO(A)PYRENE	50-32-8	µg/L	10	<10	U
6	BENZO(B)FLUORANTHENE	205-99-2	µg/L	10	<10	U
7	BENZO(G,H,I)PERYLENE	191-24-2	µg/L	10	<10	U
8	BENZO(K)FLUORANTHENE	207-08-9	µg/L	10	<10	U
9	BIS(2-CHLOROETHOXY)METHANE	111-91-1	µg/L	10	<10	U
10	BIS(2-CHLOROETHYL)ETHER	111-44-4	µg/L	10	<10	U
11	2,2'-OXYBIS(1-CHLOROPROPANE)	108-60-1	µg/L	10	<10	U
12	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	µg/L	10	<10	U
13	4-BROMOPHENYLPHENYLETHER	101-55-3	µg/L	10	<10	U
14	BUTYL BENZYLPHTHALATE	85-68-7	µg/L	10	<10	U
15	4-CHLORO-3-METHYLPHENOL	59-50-7	µg/L	20	<20	U
16	4-CHLOROANILINE	106-47-8	µg/L	20	<20	U
17	2-CHLORONAPHTHALENE	91-58-7	µg/L	10	<10	U
18	2-CHLOROPHENOL	95-57-8	µg/L	10	<10	U
19	4-CHLOROPHENYLPHENYLETHER	7005-72-3	µg/L	10	<10	U
20	CHRYSENE	218-01-9	µg/L	10	<10	U
21	DI-N-BUTYLPHTHALATE	84-74-2	µg/L	10	<10	U
22	DI-N-OCTYLPHTHALATE	117-84-0	µg/L	10	<10	U
23	DIBENZ(A,H)ANTHRACENE	53-70-3	µg/L	10	<10	U
24	DIBENZOFURAN	132-64-9	µg/L	10	<10	U
25	1,2-DICHLOROBENZENE	95-50-1	µg/L	10	<10	U
26	1,3-DICHLOROBENZENE	541-73-1	µg/L	10	<10	U
27	1,4-DICHLOROBENZENE	106-46-7	µg/L	10	<10	U
28	3,3'-DICHLOROBENZIDINE	91-94-1	µg/L	12	<12	U
29	2,4-DICHLOROPHENOL	120-83-2	µg/L	10	<10	U
30	DIETHYLPHTHALATE	84-66-2	µg/L	10	<10	U
31	DIMETHYLPHTHALATE	131-11-3	µg/L	10	<10	U
32	2,4-DIMETHYLPHENOL	105-67-9	µg/L	10	<10	U
33	4,6-DINITRO-2-METHYLPHENOL	534-52-1	µg/L	50	<50	U
34	2,4-DINITROPHENOL	51-28-5	µg/L	50	<50	U
35	2,4-DINITROTOLUENE	121-14-2	µg/L	10	<10	U
36	2,6-DINITROTOLUENE	606-20-2	µg/L	10	<10	U
37	FLUORANTHENE	206-44-0	µg/L	10	<10	U
38	FLUORENE	86-73-7	µg/L	10	<10	U
39	HEXACHLOROBENZENE	118-74-1	µg/L	10	<10	U
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	10	<10	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
41	HEXACHLOROCYCLOPENTADIENE	77-47-4	µg/L	11	<11	U
42	HEXACHLOROETHANE	67-72-1	µg/L	10	<10	U
43	INDENO(1,2,3-CD)PYRENE	193-39-5	µg/L	10	<10	U
44	ISOPHORONE	78-59-1	µg/L	10	<10	U
45	2-METHYLNAPHTHALENE	91-57-6	µg/L	10	<10	U
46	3/4-METHYLPHENOL	106-44-5	µg/L	10	<10	U
47	2-METHYLPHENOL	95-48-7	µg/L	10	<10	U
48	NAPHTHALENE	91-20-3	µg/L	10	<10	U
49	2-NITROANILINE	88-74-4	µg/L	50	<50	U
50	3-NITROANILINE	99-09-2	µg/L	50	<50	U
51	4-NITROANILINE	100-01-6	µg/L	50	<50	U
52	NITROBENZENE	98-95-3	µg/L	10	<10	U
53	2-NITROPHENOL	88-75-5	µg/L	10	<10	U
54	4-NITROPHENOL	100-02-7	µg/L	50	<50	U
55	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	µg/L	10	<10	U
56	N-NITROSODIPHENYLAMINE	86-30-6	µg/L	10	<10	U
57	PENTACHLOROPHENOL	87-86-5	µg/L	50	<50	U
58	PHENANTHRENE	85-01-8	µg/L	10	<10	U
59	PHENOL	108-95-2	µg/L	10	<10	U
60	PYRENE	129-00-0	µg/L	10	<10	U
61	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	10	<10	U
62	2,4,5-TRICHLOROPHENOL	95-95-4	µg/L	10	<10	U
63	2,4,6-TRICHLOROPHENOL	88-06-2	µg/L	10	<10	U

Surrogates	Control Limit, %	Surro. Rec.%
1 2-FLUOROBIPHENYL	321-60-8	43-115
2 2-FLUOROPHENOL	367-12-4	21- 99
3 NITROBENZENE-D5	4165-60-0	35-113
4 PHENOL-D5	4165-62-2	10- 93
5 TERPHENYL-D14	1718-51-0	33-140
6 2,4,6-TRIBROMOPHENOL	118-79-6	10-122
# of out-of-control		0

Internal Standard	Control Limit, %	IS Rec.%
1 ACENAPHTHENE-D10	15067-26-2	50-200
2 CHRYSENE-D12	1719-03-5	50-200
3 1,4-DICHLOROBENZENE-D4	3855-82-1	50-200
4 NAPHTHALENE-D8	1146-65-2	50-200
5 PERYLENE-D12	1520-96-3	50-200
6 PHENANTHRENE-D10	1517-22-2	50-200
# of out-of-control		0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8270C

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/26/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	083-ES00126-71	Lab Sample ID:	01-6036-1	Received Date:	09/27/2001
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8270C	Prep. Method:	3510	Instrument ID:	GC/MS: Z
Batch No:	01G4514	Prep. Date:	09/30/01	Anal. Date:	10/02/01
Data File Name:	6036-01	Prep. No:	1 of 1	Anal. Time:	14:08
Extract Vol.	1.0 mL	Sample Amount:	1000 mL	Dilution Factor:	1

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACENAPHTHENE	83-32-9	µg/L	10	28	
2	ACENAPHTHYLENE	208-96-8	µg/L	10	<10	U
3	ANTHRACENE	120-12-7	µg/L	10	<10	U
4	BENZO(A)ANTHRACENE	56-55-3	µg/L	10	<10	U
5	BENZO(A)PYRENE	50-32-8	µg/L	10	<10	U
6	BENZO(B)FLUORANTHENE	205-99-2	µg/L	10	<10	U
7	BENZO(G,H,I)PERYLENE	191-24-2	µg/L	10	<10	U
8	BENZO(K)FLUORANTHENE	207-08-9	µg/L	10	<10	U
9	BIS(2-CHLOROETHOXY)METHANE	111-91-1	µg/L	10	<10	U
10	BIS(2-CHLOROETHYL)ETHER	111-44-4	µg/L	10	<10	U
11	2,2'-OXYBIS(1-CHLOROPROPANE)	108-60-1	µg/L	10	<10	U
12	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	µg/L	10	<10	U
13	4-BROMOPHENYLPHENYLETHER	101-55-3	µg/L	10	<10	U
14	BUTYL BENZYL PHTHALATE	85-68-7	µg/L	10	<10	U
15	4-CHLORO-3-METHYLPHENOL	59-50-7	µg/L	20	9.9	J
16	4-CHLOROANILINE	106-47-8	µg/L	20	<20	U
17	2-CHLORONAPHTHALENE	91-58-7	µg/L	10	<10	U
18	2-CHLOROPHENOL	95-57-8	µg/L	10	<10	U
19	4-CHLOROPHENYLPHENYLETHER	7005-72-3	µg/L	10	<10	U
20	CHRYSENE	218-01-9	µg/L	10	<10	U
21	DI-N-BUTYLPHTHALATE	84-74-2	µg/L	10	<10	U
22	DI-N-OCTYLPHTHALATE	117-84-0	µg/L	10	<10	U
23	DIBENZ(A,H)ANTHRACENE	53-70-3	µg/L	10	<10	U
24	DIBENZOFURAN	132-64-9	µg/L	10	17	
25	1,2-DICHLOROBENZENE	95-50-1	µg/L	10	<10	U
26	1,3-DICHLOROBENZENE	541-73-1	µg/L	10	<10	U
27	1,4-DICHLOROBENZENE	106-46-7	µg/L	10	5.8	J
28	3,3'-DICHLOROBENZIDINE	91-94-1	µg/L	12 (c)	<12	U
29	2,4-DICHLOROPHENOL	120-83-2	µg/L	10	<10	U
30	DIETHYL PHTHALATE	84-66-2	µg/L	10	<10	U
31	DIMETHYL PHTHALATE	131-11-3	µg/L	10	<10	U
32	2,4-DIMETHYLPHENOL	105-67-9	µg/L	10	<10	U
33	4,6-DINITRO-2-METHYLPHENOL	534-52-1	µg/L	50	<50	U
34	2,4-DINITROPHENOL	51-28-5	µg/L	50	<50	U
35	2,4-DINITROTOLUENE	121-14-2	µg/L	10	<10	U
36	2,6-DINITROTOLUENE	606-20-2	µg/L	10	<10	U
37	FLUORANTHENE	206-44-0	µg/L	10	1.9	J
38	FLUORENE	86-73-7	µg/L	10	20	
39	HEXACHLOROBENZENE	118-74-1	µg/L	10	<10	U
40	HEXACHLOROBUTADIENE	87-68-3	µg/L	10	<10	U

#	Component Name	CAS No	Unit	RL	Result	Qualifier
41	HEXACHLOROCYCLOPENTADIENE	77-47-4	µg/L	11 (c)	<11	U
42	HEXACHLOROETHANE	67-72-1	µg/L	10	<10	U
43	INDENO(1,2,3-CD)PYRENE	193-39-5	µg/L	10	<10	U
44	ISOPHORONE	78-59-1	µg/L	10	<10	U
45	2-METHYLNAPHTHALENE	91-57-6	µg/L	10	8.9	J
46	3/4-METHYLPHENOL	106-44-5	µg/L	10	<10	U
47	2-METHYLPHENOL	95-48-7	µg/L	10	<10	U
48	NAPHTHALENE	91-20-3	µg/L	10	9.9	J
49	2-NITROANILINE	88-74-4	µg/L	50	<50	U
50	3-NITROANILINE	99-09-2	µg/L	50	<50	U
51	4-NITROANILINE	100-01-6	µg/L	50	<50	U
52	NITROBENZENE	98-95-3	µg/L	10	<10	U
53	2-NITROPHENOL	88-75-5	µg/L	10	<10	U
54	4-NITROPHENOL	100-02-7	µg/L	50	<50	U
55	N-NITROSO-DI-N-PROPYLAMINE	621-64-7	µg/L	10	<10	U
56	N-NITROSODIPHENYLAMINE	86-30-6	µg/L	10	<10	U
57	PENTACHLOROPHENOL	87-86-5	µg/L	50	<50	U
58	PHENANTHRENE	85-01-8	µg/L	10	13	
59	PHENOL	108-95-2	µg/L	10	<10	U
60	PYRENE	129-00-0	µg/L	10	1.6	J
61	1,2,4-TRICHLOROBENZENE	120-82-1	µg/L	10	<10	U
62	2,4,5-TRICHLOROPHENOL	95-95-4	µg/L	10	<10	U
63	2,4,6-TRICHLOROPHENOL	88-06-2	µg/L	10	<10	U

Surrogates

			Control Limit, %	Surro. Rec.%
1	2-FLUOROBIPHENYL	321-60-8	43-115	62
2	2-FLUOROPHENOL	367-12-4	21- 99	48
3	NITROBENZENE-D5	4165-60-0	35-113	73
4	PHENOL-D5	4165-62-2	10- 93	36
5	TERPHENYL-D14	1718-51-0	33-140	89
6	2,4,6-TRIBROMOPHENOL	118-79-6	10-122	76
# of out-of-control				0

Internal Standard

			Control Limit, %	IS Rec.%
1	ACENAPHTHENE-D10	15067-26-2	50-200	166
2	CHRYSENE-D12	1719-03-5	50-200	137
3	1,4-DICHLOROBENZENE-D4	3855-82-1	50-200	99
4	NAPHTHALENE-D8	1146-65-2	50-200	125
5	PERYLENE-D12	1520-96-3	50-200	167
6	PHENANTHRENE-D10	1517-22-2	50-200	160
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

(c) MDL reported.

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8082

Client Name:	The IT Group	Project No:	831667	Collection Date:	10/01/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	01G4533-MB-01	Lab Sample ID:	01G4533-MB-01	Received Date:	10/01/2001
Sample Type:	Method Blank	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8082	Prep. Method:	3510	Instrument ID:	GC: S
Batch No:	01G4533	Prep. Date:	10/01/01	Anal. Date:	10/03/01
Data File Name:	4533G.K01	Prep. No:	1 of 1	Anal. Time:	09:31
Extract Vol.	1.0 mL	Sample Amount:	1000 mL	Dilution Factor:	1

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	PCB-1016 (AROCLOR 1016)	12674-11-2	µg/L	1	< 1	U
2	PCB-1221 (AROCLOR 1221)	11104-28-2	µg/L	2	< 2	U
3	PCB-1232 (AROCLOR 1232)	11141-16-5	µg/L	1	< 1	U
4	PCB-1242 (AROCLOR 1242)	53469-21-9	µg/L	1	< 1	U
5	PCB-1248 (AROCLOR 1248)	12672-29-6	µg/L	1	< 1	U
6	PCB-1254 (AROCLOR 1254)	11097-69-1	µg/L	1	< 1	U
7	PCB-1260 (AROCLOR 1260)	11096-82-5	µg/L	1	< 1	U

Surrogates		Control Limit, %	Surro. Rec.%
1	DECACHLOROBIPHENYL (DCB)	11-53-0	36-138
2	2,4,5,6-TETRACHLORO-META-XYLENE	877-09-8	36-138
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8082

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/26/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	083-ES00126-71	Lab Sample ID:	01-6036-1	Received Date:	09/27/2001
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8082	Prep. Method:	3510	Instrument ID:	GC: S
Batch No:	01G4533	Prep. Date:	10/01/01	Anal. Date:	10/03/01
Data File Name:	6036.001	Prep. No:	1 of 1	Anal. Time:	10:47
Extract Vol.	1.0 mL	Sample Amount:	1000 mL	Dilution Factor:	1

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	PCB-1016 (AROCLOR 1016)	12674-11-2	µg/L	1	<1	U
2	PCB-1221 (AROCLOR 1221)	11104-28-2	µg/L	2	3.2	
3	PCB-1232 (AROCLOR 1232)	11141-16-5	µg/L	1	<1	U
4	PCB-1242 (AROCLOR 1242)	53469-21-9	µg/L	1	<1	U
5	PCB-1248 (AROCLOR 1248)	12672-29-6	µg/L	1	<1	U
6	PCB-1254 (AROCLOR 1254)	11097-69-1	µg/L	1	<1	U
7	PCB-1260 (AROCLOR 1260)	11096-82-5	µg/L	1	<1	U

Surrogates		Control Limit, %	Surro. Rec.%
1	DECACHLOROBIPHENYL (DCB)	36-138	76
2	2,4,5,6-TETRACHLORO-META-XYLENE	36-138	98
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8151A

Client Name: The IT Group Project No: 831667 Collection Date: 10/01/2001
 Project ID: Hunter's Point Service ID: 16036 Collected by:
 Sample ID: 01G4534-MB-01 Lab Sample ID: 01G4534-MB-01 Received Date: 10/01/2001
 Sample Matrix: Water Moisture %: -
 Sample Type: Method Blank Prep. Method: METHOD Instrument ID: GC: T
 Anal. Method: 8151A Prep. Date: 10/01/01 Anal. Date: 10/02/01
 Batch No: 01G4534 Prep. No: 1 of 1 Anal. Time: 17:52
 Data File Name: 4534G.K01 Sample Amount: 1000 mL Dilution Factor: 1
 Extract Vol. 10. mL

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACIFLUORFEN	50594-66-6	µg/L	1	<1	U
2	BENTAZON	25057-89-0	µg/L	0.5	<0.5	U
3	CHLORAMBEN	133-90-4	µg/L	0.5	<0.5	U
4	2,4-D	94-75-7	µg/L	0.5	<0.5	U
5	2,4 DB	94-82-6	µg/L	0.5	<0.5	U
6	DALAPON	75-99-0	µg/L	1	<1	U
7	DICAMBA	1918-00-9	µg/L	0.5	<0.5	U
8	3,5-DICHLOROBENZOIC ACID	51-36-5	µg/L	0.5	<0.5	U
9	DICHLOROPROP	120-36-5	µg/L	0.5	<0.5	U
10	DINOSEB	88-85-7	µg/L	0.5	<0.5	U
11	MCPA	94-74-6	µg/L	100	<100	U
12	MCPP	93-65-2	µg/L	100	<100	U
13	4-NITROPHENOL	100-02-7	µg/L	0.5	<0.5	U
14	PENTACHLOROPHENOL	87-86-5	µg/L	0.5	<0.5	U
15	PICLORAM	1918-02-1	µg/L	0.5	<0.5	U
16	2,4,5-T	93-76-5	µg/L	0.5	<0.5	U
17	SILVEX (2,4,5-TP)	93-72-1	µg/L	0.5	<0.5	U

Surrogates		Control Limit, %	Surro. Rec.%
1	2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	45-133
# of out-of-control			73
			0
Internal Standard		Control Limit, %	IS Rec.%
1	4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200
# of out-of-control			81
			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL E - Exceed calibration range
 J - Less than RL (PQL, EQL or CRDL), but greater B - A positive value was found in the method blank
 than MDL, or an estimated result (e.g. for TIC) D - Diluted

Applied P & Ch Laboratory
Organic Analysis Results for Method 8151A

Client Name:	The IT Group	Project No:	831667	Collection Date:	09/26/2001
Project ID:	Hunter's Point	Service ID:	16036	Collected by:	
Sample ID:	083-ES00126-71	Lab Sample ID:	01-6036-1	Received Date:	09/27/2001
Sample Type:	Field Sample	Sample Matrix	Water	Moisture %:	-
Anal. Method:	8151A	Prep. Method:	METHOD	Instrument ID:	GC: T
Batch No:	01G4534	Prep. Date:	10/01/01	Anal. Date:	10/04/01
Data File Name:	6036.101	Prep. No:	1 of 1	Anal. Time:	19:28
Extract Vol.	10. mL	Sample Amount:	1000 mL	Dilution Factor:	1

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	ACIFLUORFEN	50594-66-6	µg/L	1	<1	U
2.	BENTAZON	25057-89-0	µg/L	0.5	<0.5	U
3	CHLORAMBEN	133-90-4	µg/L	0.5	<0.5	U
4	2,4-D	94-75-7	µg/L	0.5	<0.5	U
5	2,4 DB	94-82-6	µg/L	0.5	<0.5	U
6	DALAPON	75-99-0	µg/L	1	<1	U
7	DICAMBA	1918-00-9	µg/L	0.5	<0.5	U
8	3,5-DICHLOROBENZOIC ACID	51-36-5	µg/L	0.5	<0.5	U
9	DICHLOROPROP	120-36-5	µg/L	0.5	<0.5	U
10	DINOSEB	88-85-7	µg/L	0.5	<0.5	U
11	MCPA	94-74-6	µg/L	100	<100	U
12	MCPP	93-65-2	µg/L	100	<100	U
13	4-NITROPHENOL	100-02-7	µg/L	0.5	<0.5	U
14	PENTACHLOROPHENOL	87-86-5	µg/L	0.5	<0.5	U
15	PICLORAM	1918-02-1	µg/L	0.5	<0.5	U
16	2,4,5-T	93-76-5	µg/L	0.5	<0.5	U
17	SILVEX (2,4,5-TP)	93-72-1	µg/L	0.5	<0.5	U

Surrogates		Control Limit, %	Surro. Rec.%
1	2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	45-133
# of out-of-control			93
			0
Internal Standard		Control Limit, %	IS Rec.%
1	4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200
# of out-of-control			104
			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL

J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)

E - Exceed calibration range

B - A positive value was found in the method blank

D - Diluted

Applied P & Ch Laboratory
Metal Analysis Results

Client Name: The IT Group

Project No: 831667

Collection Date: 09/27/2001

Project ID: Hunter's Point

Service ID: 16036

Collected by:

Sample ID: 01M2388-MB-01

Lab Sample ID: 01M2388-MB-01 Received Date: 09/27/2001

Sample Type: Method Blank

Sample Matrix Water

Moisture %: -

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ORGANO LEAD	10-02-2	µg/L	100	< 100	U	A		01M2388F	09/27/01	09/28/01	1	LUFT
ANTIMONY	7440-36-0	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
ARSENIC	7440-38-2	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
BARIUM	7440-39-3	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
BERYLLIUM	7440-41-7	µg/L	2	< 2	U	P		01M2395M	09/28/01	09/28/01	1	6010B
CADMIUM	7440-43-9	µg/L	2	< 2	U	P		01M2395M	09/28/01	09/28/01	1	6010B
CHROMIUM	7440-47-3	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
COBALT	7440-48-4	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
COPPER	7440-50-8	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
LEAD	7439-92-1	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
MERCURY	7439-97-6	µg/L	0.5	< 0.5	U	CV		01M2400H	09/28/01	09/28/01	1	7470A
MOLYBDENUM	7439-98-7	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
NICKEL	7440-02-0	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
SELENIUM	7782-49-2	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
SILVER	7440-22-4	µg/L	10	0.35	B	P		01M2395M	09/28/01	09/28/01	1	6010B
THALLIUM	7440-28-0	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
VANADIUM	7440-62-2	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
ZINC	7440-66-6	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL

B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control

* - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control

E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA

CV - Cold Vapor

Applied P & Ch Laboratory
Metal Analysis Results

Client Name: The IT Group

Project No: 831667

Collection Date: 09/26/2001

Project ID: Hunter's Point

Service ID: 16036

Collected by:

Sample ID: 083-ES00126-71

Lab Sample ID: 01-6036-1

Received Date: 09/27/2001

Sample Type: Field Sample

Sample Matrix Water

Moisture %: -

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ORGANO LEAD	10-02-2	µg/L	100	< 100	U	A		01M2388F	09/27/01	09/28/01	1	LUFT
ANTIMONY	7440-36-0	µg/L	10	2.2	B	P		01M2395M	09/28/01	09/28/01	1	6010B
ARSENIC	7440-38-2	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
BARIUM	7440-39-3	µg/L	10	810		P		01M2395M	09/28/01	09/28/01	1	6010B
BERYLLIUM	7440-41-7	µg/L	2	< 2	U	P		01M2395M	09/28/01	09/28/01	1	6010B
CADMIUM	7440-43-9	µg/L	2	< 2	U	P		01M2395M	09/28/01	09/28/01	1	6010B
CHROMIUM	7440-47-3	µg/L	5	11		P		01M2395M	09/28/01	09/28/01	1	6010B
COBALT	7440-48-4	µg/L	5	1.9	B	P		01M2395M	09/28/01	09/28/01	1	6010B
COPPER	7440-50-8	µg/L	10	28		P		01M2395M	09/28/01	09/28/01	1	6010B
LEAD	7439-92-1	µg/L	5	3.4	B	P		01M2395M	09/28/01	09/28/01	1	6010B
MERCURY	7439-97-6	µg/L	0.5	0.065	B	CV		01M2400H	09/28/01	09/28/01	1	7470A
MOLYBDENUM	7439-98-7	µg/L	5	< 5	U	P		01M2395M	09/28/01	09/28/01	1	6010B
NICKEL	7440-02-0	µg/L	5	17		P		01M2395M	09/28/01	09/28/01	1	6010B
SELENIUM	7782-49-2	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
SILVER	7440-22-4	µg/L	10	< 10	U	P		01M2395M	09/28/01	09/28/01	1	6010B
THALLIUM	7440-28-0	µg/L	10	2.7	B	P		01M2395M	09/28/01	09/28/01	1	6010B
VANADIUM	7440-62-2	µg/L	10	5.0	B	P		01M2395M	09/28/01	09/28/01	1	6010B
ZINC	7440-66-6	µg/L	10	29		P		01M2395M	09/28/01	09/28/01	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control *

- Duplicate analysis out of control

W - Post digestion spike for GFAA out of control

E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory
Wet Analysis Results for Method 410.4

Client Name: The IT Group Project No: 831667 Anal. Method 410.4
Project ID: Hunter's Point Service ID: 16036 Collected by:

Component Name: Chemical Oxygen Demand (COD)

CAS No: 10-27-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	10/02/01	01W5717	mg-O ₂ /L	20	170	
01W5717-MB-01	01W5717-MB-01	Water	10/02/01	10/02/01	10/02/01	01W5717	mg-O ₂ /L	20	<20	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 325.3

Client Name: The IT Group
Project ID: Hunter's Point

Project No: 831667
Service ID: 16036

Anal. Method 325.3
Collected by:

Component Name: Chloride Cl⁻
CAS No: 16887-00-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	09/28/01	01W5671	mg/L	1	1600	
01W5671-MB-01	01W5671-MB-01	Water	09/28/01	09/28/01	09/28/01	01W5671	mg/L	1	<1	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 335.2

Client Name: The IT Group
Project ID: Hunter's Point

Project No: 831667
Service ID: 16036

Anal. Method 335.2
Collected by:

Component Name: Cyanide
CAS No: 57-12-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	10/08/01	01W5796	mg/L	0.05	<0.05	U
01W5796-MB-01	01W5796-MB-01	Water	10/08/01	10/08/01	10/08/01	01W5796	mg/L	0.05	<0.05	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 340.2

Client Name: The IT Group Project No: 831667 Anal. Method 340.2
Project ID: Hunter's Point Service ID: 16036 Collected by:

Component Name: Fluoride
CAS No: 16984-48-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	10/08/01	01W5806	mg/L	0.1	0.69	
01W5806-MB-01	01W5806-MB-01	Water	10/08/01	10/08/01	10/08/01	01W5806	mg/L	0.1	<0.1	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 1010

Client Name: The IT Group
Project ID: Hunter's Point

Project No: 831667
Service ID: 16036

Anal. Method 1010
Collected by:

Component Name: Ignitability (Flashpoint)

CAS No: 10-36-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	10/02/01	01W5721	°C	0.5 ^(a)	> 100	

^(a)Corresponds to the minimum reading of the thermometer used.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 413.2

Client Name: The IT Group Project No: 831667 Anal. Method 413.2
Project ID: Hunter's Point Service ID: 16036 Collected by:

Component Name: Oil and Grease

CAS No: 10-30-0

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	10/05/01	01W5783	mg/L	5	<5	U
01W5783-MB-01	01W5783-MB-01	Water	10/05/01	10/05/01	10/05/01	01W5783	mg/L	5	<5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 9040

Client Name: The IT Group
Project ID: Hunter's Point

Project No: 831667
Service ID: 16036

Anal. Method 9040
Collected by:

Component Name: pH

CAS No: 10-29-7

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	09/27/01	01W5619	pH unit	0.01	6.64	
01W5619-MB-01	01W5619-MB-01	Water	09/27/01	09/27/01	09/27/01	01W5619	pH unit	0.01	6.88	

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 160.2

Client Name: The IT Group Project No: 831667 Anal. Method 160.2
Project ID: Hunter's Point Service ID: 16036 Collected by:

Component Name: Solids, Total Suspended (TSS)

CAS No: 10-32-2

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	09/28/01	01W5667	mg/L	10	41	
01W5667-MB-01	01W5667-MB-01	Water	09/28/01	09/28/01	09/28/01	01W5667	mg/L	10	<10	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 376.2

Client Name: The IT Group
Project ID: Hunter's Point

Project No: 831667
Service ID: 16036

Anal. Method 376.2
Collected by:

Component Name: Sulfide, Dissolved

CAS No: 11-21-2

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	10/01/01	01W5676	mg/L	0.2	0.27	
01W5676-MB-01	01W5676-MB-01	Water	10/01/01	10/01/01	10/01/01	01W5676	mg/L	0.2	<0.2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 7196

Client Name: The IT Group Project No: 831667 Anal. Method 7196
Project ID: Hunter's Point Service ID: 16036 Collected by:

Component Name: Chromium (VI)

CAS No: 1333-82-0

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	09/27/01	01W5621	mg/L	0.01	<0.01	U
01W5621-MB-01	01W5621-MB-01	Water	09/27/01	09/27/01	09/27/01	01W5621	mg/L	0.01	<0.01	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Applied P & Ch Laboratory
Wet Analysis Results for Method 418.1

Client Name: The IT Group
Project ID: Hunter's Point

Project No: 831667
Service ID: 16036

Anal. Method 418.1
Collected by:

Component Name: TRPH
CAS No: 10-90-2

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
01-6036-1	083-ES00126-71	Water	09/26/01	09/27/01	10/05/01	01W5784	mg/L	5	<5	U
01W5784-MB-01	01W5784-MB-01	Water	10/05/01	10/05/01	10/05/01	01W5784	mg/L	5	<5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.